David Bell

Professional Self-Assessment

As I have now completed my Computer Science Software Engineering coursework for my bachelor's degree, I am a more employable computer science professional. Team collaboration became a common practice in working on projects. Using collaboration software like bitbucket and GitHub and learning the Agile software development practice has prepared me for working on a team and developing solutions as an individual that is part of a larger unit. I have that communicating to stakeholders is key to a successful product. Creating summary reports of progress and pushing the right information in meetings is key in reaching the goals set forth by the project. I have successfully applied data structures such as arrays, dictionaries, lists, tuples and HashMap's to several projects. I have created my own algorithms to create solutions to problems and successfully applied Dijkstra's algorithm for a mountain hiking project in python. I engineered six android mobile applications during the program with each of them using the java language. I demonstrated proficiency in using the MongoDB, MySQL and PostgreSQL databases. I created a database using MySQL and paired it with php for use with my online gaming guilds database of characters and gear spreadsheets. When programming I have applied security features such as closing loops and unit testing to ensure that a product has zero vulnerabilities from my end.

This portfolio stands as demonstration of my skills and abilities in the computer science field. It has examples of my journey up to this point that span from Software Engineering and Design to Algorithms and Data Structures to work with databases and data science. Specifically, I have created a python guessing game, a decimal to binary algorithms and a data mining project to showcase my skills in these realms.